

A NEW SPECIES OF BIDENS (HELIANTHEAE-ASTERACEAE)

FROM GUATEMALA

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Recently, while intercalating members of the Asteraceae into the herbarium, the following new species, *Bidens nana* Dillon, was encountered. It was originally distributed under the name *Bahia depauperata* S.F. Blake, a species that it superficially resembles.

Bidens nana Dillon, sp. nov., fig. 1.

TYPE: Guatemala, Huehuetenango, Chiantla, Aldea San Nicolás, pasto natural de la Estación Ovino, 3150 m, 12 Oct 1976, D. N. Smith 490 (holotype, F; isotype, ISC).

Herbae annuae 2-5 cm altae. Folia bipinnata 5-11 mm longa inclusis petiolis, 5-10 mm lata segmentis oblanceolatis vel ellipticis 1-5 mm longis, 0.5-1.0 mm latis. Capitula solitaria discoidea flosculis 7-10. Achaenia linearia-attenuata 3-5 mm longa, pappi aristae 2, 0.5-1.0 mm longi hamulosi.

Annual herbs, 2-5 cm tall; stems to 6 cm long, erect to procumbent, sparsely pilose. Leaves opposite, bipinnatifid, ovate in outline, 5-11 mm long, including petiole, 5-10 mm wide, the segments oblanceolate to elliptic, 1-5 mm long, 0.5-1.0 mm wide, sparsely pilose. Capitulescence solitary, terminal and axillary, peduncles 1-6 mm long. Capitula discoid, 3.0-5.5 mm high, 2-3 mm wide, often subtended by foliaceous calyculate bracts, 2-3-fid, 4-5 mm long; receptacle plane; involucre campanulate, 2-seriate; outer phyllaries oblanceolate, subfoliaceous, green, sparsely pilose, 2.5-5.0 mm long, 0.7-1.0 mm wide, apically acute, the inner phyllaries lanceolate to narrowly ovate, membranaceous, sparsely pilose, yellowish, striate, dark striped, 3.0-3.5 mm long, 1.0-1.4 mm wide, the margins hyaline, apically acute to rounded, ciliate; paleae linear-lanceolate, membranaceous, yellow striped, 4.0-4.5 mm long, apically obtuse to truncate, mucronate; florets 7-10, the corollas (4-) 5-lobed, yellow, narrowly cylindrical, 2.0-2.5 mm long, sparsely glandular; anthers black, ca. 0.8 mm long, the terminal appendages ovate, the style branches ca. 0.5 mm long, the appendages lanceolate, hispidulous. Achenes black, linear-attenuate, flattened, ribbed, 3-5 mm long, 0.3-0.6 mm wide, antorsely setose apically; pappus of 2 awns, erect, slender, 0.5-1.0 mm long, retorsely barbellate.

This small annual is unique among the *Bidens* taxa thusfar described from Guatemala, and does not appear closely related to any of the species currently known from that country. It resembles forms of *Bidens anthemoides* (DC.) Sherff occurring in alpine habitats (above 3000 m) in central Mexico. Those individuals have a smaller habit and bipinnatifid leaves; however, their larger leaf segments and radiate capitula on peduncles over 1 cm long clearly distinguish them from *Bidens nana*.

Additional material examined: GUATEMALA: Huehuetenango. Todo Santos, Yac, Valle de la Ventura, 3550 m, 4 Oct 1977, D. N. Smith 846 (F, ISC); Huehuetenango. Chiantla, Llano de San Nicolás, 3080 m, 5 Oct 1977, D. N. Smith 849 (F, ISC); San Marcos. Ixchiguan, Cerro Cotzic, 3550 m, D. N. Smith et al. 919 (F, ISC).

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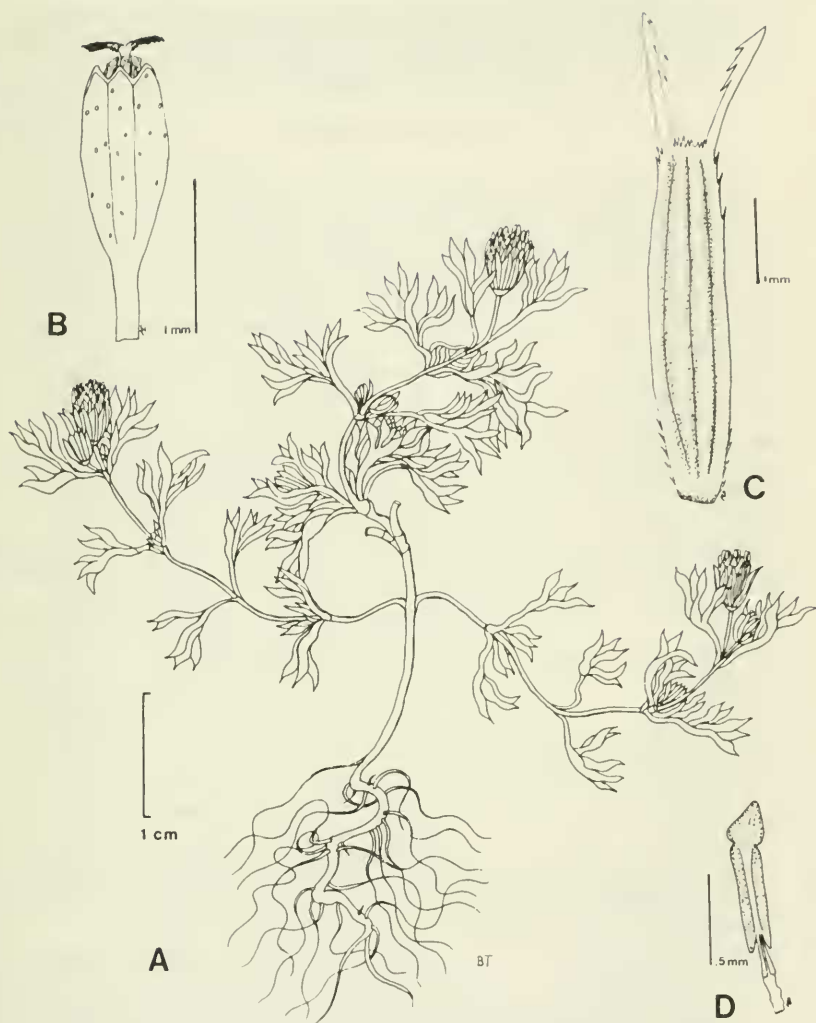


Fig. 1. *Bidens nana*. A, habit; B, floret; C, achene; D, anther.

(From Smith 490, F).